

Service Manual

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PARTS LIST ACCORDING TO EXPLODED VIEW	
POINT TO POINT WIRING DIAGRAM	
SCHEMATIC DIAGRAM	
BLOCK DIAGRAM	
SPECIFICATIONS	
Type	. Soft touch, front loading stereo cassette
	deck
Track system	
Recording system	
Erasing system	
Tape speed	
Heads	head x 1, Double gap erasing head x 1
Motor	
Wow and flutter	
Fast winding time	
	cassette tape
Frequency response	
-20dB RECORDING	
	C_7O_2 tape 25-15,000Hz(30-14,000Hz \pm 3dB)
OdB RECORDING	METAL tape 25-15,000Hz(30-14,500Hz±3dB)
Signal to noise ratio (REC/PB)	. METAL tape 30-10,000HZ±30B
Dolby NR ON	64dR(Normal tane)
(Weighted)	- · ·
Dolby NR OFF	
(Weighted)	
THD	
Input sensitivity/Impedance	. MIC 0.4mV/600-6.8K ohms
0	LINE 90mV/47K ohm
Output level/Load impedance	
Power consumption	
Dimesions	
Unit weight	
	tion improvements.

ELECTRICAL ADJUSTMENT PROCEDURE

To make the adjustments the following instruments are necessary:

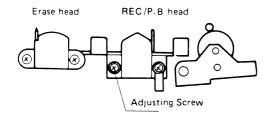
- * High sensitivity AC voltmeter
- * Audio frequency oscillator
- * Attenuator
- * Oscilloscope
- * Distortion meter
- * Wow and flutter meter w/frequency counter
- * CCIR/ARM noise Weighting filter
- * Test tape

I . TAPE SPEED

- 1. Connect the wow and fluttermeter to OUTPUT terminals.
 - * Output terminals: Line Output
- 2. Play back the 3KHz, —10dB signal of the test tape (MTT-111)
- 3. Insert a small-screwdriver into the adjustment hole (= behind of the motor), and adjust the semifixed resistor till the wow and flutter meter reads 3KHz.
 - * If the speed is low, turn the resistor clockwise.
 - * If the speed is high, turn it counter-clockwise.

Ⅱ. HEAD AZIMUTH(Fig. 1)

- 1. Set the TAPE selector (EQ) to NORM.
- 2. Connect the voltmeter and oscilloscope to OUTPUT terminals.
- 3. Play back the 10KHz, -10dB signal of the test tape. (MTT-114)
- 4. Observing the voltmeter, turn screw(REC/P. B head adjusting screw) to maximize the signal on both the left and right channels.
- 5. After adjustment, be sure to lock screw so that it cannot move.



Ⅲ. PLAYBACK LEVEL

- 1. Connect the voltmeter and oscilloscope to the OUTPUT terminals.
- 2. Switch the DOLBY NR switch OFF.
- 3. Set the output level volume to be maximum position.
- 4. Playback the 400Hz, +3dB = 0.540Vsignal of the test tape (MTT-150).
- 5. VR102R(right) and VR102L(left) should be adjusted till the voltmeter read is 0.540V.

IV. PLAYBACK EQUALIZER

- 1. Set the TAPE selector to NORM.
- 2. Set the Dolby NR switch to be OFF.
- 3. Set the output level volume to be maximum position.
- 4. Connect the voltmeter and oscilloscope to the OUTPUT terminals.
- 5. Playback the 12.5KHz/1KHz/40Hz, -24dB signal of the test tape. (MTT-217G)
- 6. Read output at 1KHz playback and Adjust VR101R (right) and VR101L(left) on the EQ amplifier until the voltmeter indicates + 2dB at 12.5KHz playback than output at 1KHz playback.
- 7. In playback of the test tape (MTT-217G), set the TAPE selector to CrO₂ and Metal position, then confirm the indication on AC voltmeter at 12.5KHz playback is dropping down approximately 4dB compare with NORM position.
 - * Standard frequency: 1KHz

V. LED LEVEL METER CALIBRATION

- 1. Apply a 400Hz signal to the INPUT terminals (= line input) and put the deck in the REC mode.
- 2. Connect the voltmeter and oscilloscope to the OUTPUT terminals.
- 3. Switch the Dolby NR switch OFF.
- 4. Set the output level volume to be maximum position
- 5. Adjust the REC level volumes till the OUTPUT from the OUTPUT terminals is +3dB(=0.540V).
- 6. Adjust VR301R(right) and VR301L(left) until the LED meter indicates exactly "+3"dB or DOLBY mark (= DD).

VI. FM MPX FILTER

- 1. Set the output level volume to be maximum position.
- 2. Connect the voltmeter and oscilloscope to the OUTPUT terminals.
- 3 Apply the 400Hz signal to the INPUT terminals (= line input) and put the deck in the REC mode.
- 4. Control the REC level volumes till the OUTPUT from the OUTPUT terminals is approximate + 3dB (= 0.540V).
- 5. Apply the 19KHz signal to the INPUT terminals (= line input) and put the deck in the REC mode.
- Adjust LPF-R L101R(right) and LPF-L L101L (left) on the MPX filter processor (only white color mark core) so as to minimize the signal coming out of the OUTPUT terminals.

VII. RECORDING BIAS

Fig. 1

- 1. Set the REC level controls to their minimum positions and put the deck in the record mode.
- 2. Set the TAPE selector to "NORM".
- 3. Connect the voltmeter to test point T. P2(right) and T. P1(left) on the P. B amplifier.
- 4. Adjust VR104R(right) and VR104L(left) until the voltmeter reads 3.4mV (= 340uA).
- 5. Check
 - * Cr02: Adjust VR105 until the voltmeter reads 4.6 mV (= 460 uA)
 - * METAL: Adjust VR106 until the voltmeter reads 7.5 mV (= 750 uA)

VII. BIAS TRAP

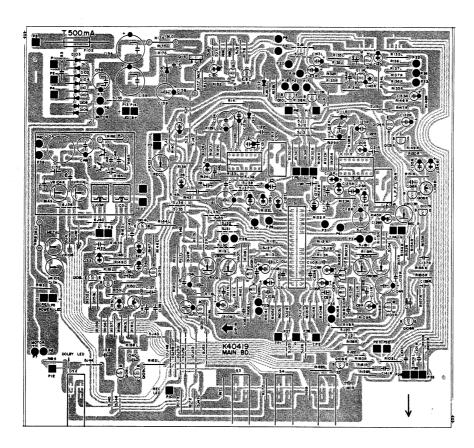
- 1. Put the deck in the record mode and set the REC' level controls to their minimum position.
- 2. Set the tape selector to METAL.
- 3. Connect the voltmeter and oscilloscope to terminals T. P8 (right) and T. P7 (left) on the REC amplifier.

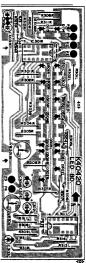
4. Adjust L103R(right) and L103L (left) until the output of the bias wave form is minimized.

IX. RECORDING LEVEL

- Apply a 400Hz signal to the INPUT terminals
 (= line input) and put the deck in the REC mode.
 Set the output level volume to be maximum po-
- 2. Connect the voltmeter and oscilloscope to the OUTPUT terminals.
- 3. Adjust the REC level controls until the OUTPUT from the OUTPUT terminals is +3dB(=0.540V).
- 4. Connect the voltmeter to test point T. P4(right) and T. P3(left) on the REC amplifier.
- 5. Set the TAPE selector to NORM.
- 6. Adjust VR103R (right) and VR103L (left) until the voltmeter reads about $-9 \sim -10$ dB.

TOP VIEW OF P.C. BOARDS





PARTS LIST

Ref No.	Parts No.	Description	Q'ty	Ref No.	Parts No.	Description	Q'ty
MAIN	N PC BOA	RD ASS'Y K40419		R120	60F562-1/4 J	Carbon 5.6K ohm 1/4 W(J)	1
				R121	60F333-1/4 J	Carbon 33K ohm ¼ W(J)	1
	SEMIC	CONDUCTORS		R122L/R	60F181-1/4 J	Carbon 180 ohm 1/4 W(J)	2
			l	R123L/R	60F332-1/4 J	Carbon 3.3K ohm 1/4 W(J)	2
I.C101L/R		I.C Dolby NE646N	2	R124L/R	60F473-1/4 J	Carbon 47K ohm $\frac{1}{4}$ W(J)	2
Q101L/R		Transistor MPS 9633 C	2	R125L/R	60F102-1/4 J	Carbon 1K ohm ¼ W(J)	2
Q102L/R		Transistor MPS 9633 C	2	R126L/R	60F102-1/4 J	Carbon 1K ohm $\frac{1}{4}$ W(J)	2
Q103L/R		Transistor 2SC 1815	2	R127L/R	60F184-1/4 J	Carbon 180K ohm 1/4 W(J)	2
Q104L/R		Transistor 2SC 1815	2	R128L/R	60F274-1/4 J	Carbon 270K ohm 1/4 W(J)	2
Q105L/R		Transistor 2SC 1815	2	R129L/R	60F391-1/4 J	Carbon 390 ohm $\frac{1}{4}$ W(J)	2
Q106L/R		Transistor 2SC 1815	2	R130L/R	60F221-1/4 J	Carbon 220 ohm $\frac{1}{4}$ W(J)	2
Q107L/R		Transistor 2SC 1815	2	R131L/R	60F104-1/4 J	Carbon 100K ohm $\frac{1}{4}$ W(J)	2
Q108L/R		Transistor 2SC 1815	2	R132L/R	60F392-1/4 J	Carbon 3.9K ohm $\frac{1}{4}$ W(J)	2
Q109L/R		Transistor 2SC 1815	2	R133L/R	60F473-1/4 J	Carbon 47K ohm $\frac{1}{4}$ W(J) Carbon 47K ohm $\frac{1}{4}$ W(J)	2 2
Q110L/R		Transistor 2SC 1815	2 2	R134L/R	60F473-1/4 J	Carbon 4/K onm $\frac{1}{4}$ W(J) Carbon 1.2K ohm $\frac{1}{4}$ W(J)	2
QIIIL/R		Transistor 2SC 1815 Transistor MPS A05		R135L/R R136L/R	60F122- ¹ / ₄ J 60F470- ¹ / ₄ J	Carbon 47 ohm $\frac{1}{4}$ W(J)	2
Q112		Transistor MPS A05	1	R136L/ R R137L/ R	60F470-3/4 J 60F103-1/4 J	Carbon 10K ohm $\frac{1}{4}$ W(J)	2
Q113		Transistor MPS A03	1	R137L/R R138L/R	60F103-1/4 J	Carbon 10K ohm $\frac{1}{4}$ W(J)	2
Q114 Q115		Transistor 2SC 1815	1	R136L/ R	60F103-1/4 J	Carbon 10K ohm $\frac{1}{4}$ W(J)	1
Q115 Q116		Transistor MPS A55	1	R140	60F103-1/4 J	Carbon 10K ohm ¼ W(J)	1
D101		Rectifier Diode 1N4002	1	R141	60F473-1/4 J	Carbon 47K ohm $\frac{1}{4}$ W(J)	1
D101		Rectifier Diode 1N4002	1	R141	60F473-1/4 J	Carbon 47K ohm $\frac{1}{4}$ W(J)	1
D102		Rectifier Diode 1N4002	1	R142	60F103-1/4 J	Carbon 10K ohm $\frac{1}{4}$ W(J)	1
D103		Rectifier Diode 1N4002	1	R144L/R	60F102-1/4 J	Carbon 1K ohm $\frac{1}{4}$ W(J)	2
D105		Rectifier Diode 1N4002	1	R145L/R	60F 562 1/4 J	Carbon 5.6K ohm ¼W(J)	2
D106		Rectifier Diode 1N4002	1	R146L/R	60F224-1/4 J	Carbon 220K ohm ¼ W(J)	2
D107		Rectifier Diode 1N4002	1	R147L/R	60F562-1/4 J	Carbon 5.6K ohm ¼ W(J)	2
D108		Rectifier Diode 1N4002	1	R148L/R	60F562-1/4 J	Carbon 5.6K ohm 1/4 W(J)	2
D109		Zener Diode WZ 240	1	R149L/R	60F473-1/4 J	Carbon 47K ohm 1/4 W(J)	2
D110				R150L/R	60F182-1/4 J	Carbon 1.8K ohm 1/4 W(J)	2
DIIIL/R		Diode CDG 24	2	R151L/R	60F822-1/4 J	Carbon 8.2K ohm 1/4 W(J)	2
D112		Diode CDG 24	1	R152L/R	60F103-1/4 J	Carbon 10K ohm 1/4 W(J)	2
D114		LED Diode SLB 61RR 3HL(RED)	1	R153L/R	60F270-1/4 J	Carbon 27 ohm 1/4 W(J)	2
D115		LED Diode SLB 61PG 3HL(Green		R154L/R	60F103-1/4 J	Carbon 10K ohm 1/4 W(J)	2
	L	<u> </u>		R155L/R	60F153-1/4 J	Carbon 15K ohm 1/4 W(J)	2
	R	RESISTORS		R156L/R	60F103-1/4 J	Carbon 10K ohm 1/4 W(J)	2
		Т		R157L/R	60F100-1/4 J	Carbon 10 ohm ¼ W(J)	2
R101L/R	60F473-1/4 J	Carbon 47K ohm ¼ W(J)	2	R158L/R	60F103-1/4 J	Carbon 10K ohm ¼ W(J)	2
				R159L/R	60F123-1/4 J	Carbon 12K ohm ¼ W(J)	2
R103L/R	60F100-1/4 J	Carbon 10 ohm ¼ W(J)	2	R160L/R	60F332-½ J	Carbon 3.3K ohm 1/4 W(J)	2
R104L/R	60F272-1/4J	Carbon 2.7K ohm ¼W(J)	2	R161L/R	60F470-1/4 J	Carbon 47 ohm $\frac{1}{4}$ W(J)	2
R105L/R	60F104-¼ J	Carbon 100K ohm 1/4 W(J)	2	R162L/R	60F103-1/4 J	Carbon 10K ohm 1/4 W(J)	2
R106L/R	60F221-1∕4 J	Carbon 220 ohm ½ W(J)	2	R163L/R	60F682-1/4 J	Carbon 6.8K ohm 1/4 W(J)	2
R107L/R	60F224-1∕4 J	Carbon 220K ohm ¼ W(J)	2	R164	60F563-1/4 J	Carbon 56K ohm $\frac{1}{4}$ W(J)	1
R108L/R	60F562-1/4 J	Carbon 5.6K ohm 1/4 W(J)	2	R165	60F563-1/4 J	Carbon 56K ohm 1/4 W(J)	1
R109L/R	60F471-1/4 J	Carbon 470 ohm $\frac{1}{4}$ W(J)	2	R166	60M100-½ J	METAL Oxide 10 ohm ½ W(J)	1
R110L/R	60F274-1/4 J	Carbon 270K ohm ¼ W(J)	2	R167			
RIIIL/R	60F331-1/4J	Carbon 330 ohm 1/4 W(J)	2	R168	60M102-½ J	METAL Oxide 1K ohm ½ W(J)	1
R112L/R	60F682-1/4 J	Carbon 6.8K ohm ¼ W(J)	2	R169	60F473-1/4 J	Carbon 47K ohm $\frac{1}{4}$ W(J)	1 1
R113L/R	60F394-1/4 J	Carbon 390K ohm ¼ W(J)	2	R170	60F473-1/4 J	Carbon 47K ohm ¼ W(J)	1
R114L/R	60F331-1/4 J	Carbon 330 ohm ¼ W(J)	2	R171	60F473-1/4 J	Carbon 47K ohm $\frac{1}{4}$ W(J)	1
R115L/R	60F222-1/4 J	Carbon 2.2K ohm ¼W(J)	2	R172	60F332-1/4 J	Carbon 3.3K ohm $\frac{1}{4}$ W(J)	1
R116L/R	60F155-1/4 J	Carbon 1.5M ohm ¼ W(J)	2	R173	60F272-1/4 J	Carbon 2.7K ohm $\frac{1}{4}$ W(J)	1
R117L/R	60F472-1/4 J	Carbon 4.7K ohm ¼ W(J)	2	R174	60M339-1J	METAL Oxide 3.3 ohm 1W(J)	1
R118L/R	60F103-1/4 J	Carbon 10K ohm ¼ W(J)	2	R175	60F391-1/4 J	Carbon 390 ohm $\frac{1}{4}$ W(J)	1
R119L/R	60F332- ¹ ⁄ ₄ J	Carbon 3.3K ohm 1/4 W(J)	2	R176	60F331-1/4 J	Carbon 330 ohm $\frac{1}{4}$ W(J)	1

PARTS LIST

21178 6 6 21179 6 6 21180 6 6 21818 6 6 21818 6 6 21818 6 6 21818 6 6 21818 6 6 21818 6 6 21818 6 6 21818 6 6 21818 6 6 21818 6 6 21818 6 6 21818 6 6 21818 6 6 21818 6 6 21818 6 6 21818 6 6 21818 6	Parts No.	Description	Q'ty
R177	60M680-½J	METAL Oxide 68 ohm ½W(J)	1
R178	60F102-1/4J	Carbon 1K ohm ½W(J)	1
R179	60F473-1/4J	Carbon 47K ohm ½W(J)	1
R180	60F103-1/4J	Carbon 10K .ohm 1/4 W(J)	1
R181	60F473-1/4J	Carbon 47K ohm ½W(J)	1
R182	60F103-1/4J	Carbon 10K ohm ½W(J)	1
R183	60F182-1/4J	Carbon 1.8K ohm 1/4 W(J)	1
R184	60F152-1/4J	Carbon 1.5K ohm ¼W(J)	I
	PE-16002	Semifixed 47K(B)	2
,	PE-16003	Semifixed 22K(B)	2
	PE-16002	Semifixed 47K(B)	2
•	PE-16012	Semifixed 100K(B)	2
	PE-16004	Semifixed 2.2K(B)	1
VR106	PE-16009	Semifixed 1K(B)	1
		FUSE	
F102		Fuse T500mA/250V (20mm) Type Secondary	1
	CA	PACITORS	
C1031 /B	50141/472 501	M I 0 0047 5 504	
•	50MY472-50J	Mylar 0.0047μF 50V	2
	50CE681-50J	Ceramic 680PF 50V	2
	50AL470-25E	Elect 47µF 25V	2
	50AL479-25E	Elect $4.7\mu\text{F}$ 25V	2
•	50CE101-50J	Ceramic 100PF 50V	2
C107L/R	50CE470-50J	Ceramic 47PF 50V	2
C108L/R	50AL479-25E	Elect 4.7μF 25V	2
C109L/R	50AL330-16E	Elect 33 μ F 16V	2
C110L/R	50MY822-50J	Mylar 0.0082μF 50V	2
CIIIL/R	50MY103-50J	Mylar 0.01μF 50V	2
C112L/R	50MY153-50J	Mylar 0.015µF 50V	2
C113	50AL470-16E	Elect $47\mu\text{F}$ 16V	1
C114L/R	50AL109-50E	Elect 1µF 50V	2
C115L/R	50AL100-16E	Elect 10µF 16V	2
C116L/R	50MY472-50J	Mylar 0.0047µF 50V	2
C117 L/ R	50MY562-50J	Mylar 0.0056µF 50V	2 -
C118L/R	50AL101-16E	Elect 100µF 16V	2
C119L/R	50MY273-50J	Mylar 0.027μF 50V	2
C120L/R	50AL100-16E	Elect 10µF 16V	2
C121L/R	50MY473-50J	Mylar 0.047µF 50V	2
C122L/R	50MY104-50J	Mylar 0.1µF 50V	2
C123L/R	50AL338-50E	Elect 0.33µF 50V	2
•	50AL101-16E	Elect 100µF 16V	2
•	50AL100-16E	Elect 10\(\mu\)F 16V	2
	50AL100-16E	Etect 10μ F $16V$	2
	50AL100-16E	Elect 10μ F $16V$	2
1 //1 /0	50AL100-16E	Elect 10μ F $16V$	
	JUNE 100-10E	ΕΙΦΕ 10μ Γ 10 ν	2
C127L/R C128L/R	i .	FI . 10 F 261/	
C128L/R C129L/R	50 41 100 355		1
C128L/R C129L/R C130	50AL100-25E	Elect 1.0µF 25V	i
C128L/R C129L/R C130 C131L/R	50MY222-50J	Mylar 0.0022μ F/50V	2
C128L/R C129L/R C130 C131L/R C132L/R	50MY222-50J 50AL479-25E	Mylar 0.0022μF/50V Elect 4.7μΕ 25V	2 2
C128L/R C129L/R C130 C131L/R C132L/R C133L/R	50MY222-50J 50AL479-25E 50AL338-50E	Mylar 0.0022μF/50V Elect 4.7μE 25V Elect 0.33μF 50V	2 2 2
C128L/R C129L/R C130 C131L/R C132L/R	50MY222-50J 50AL479-25E	Mylar 0.0022μF/50V Elect 4.7μΕ 25V	2 2

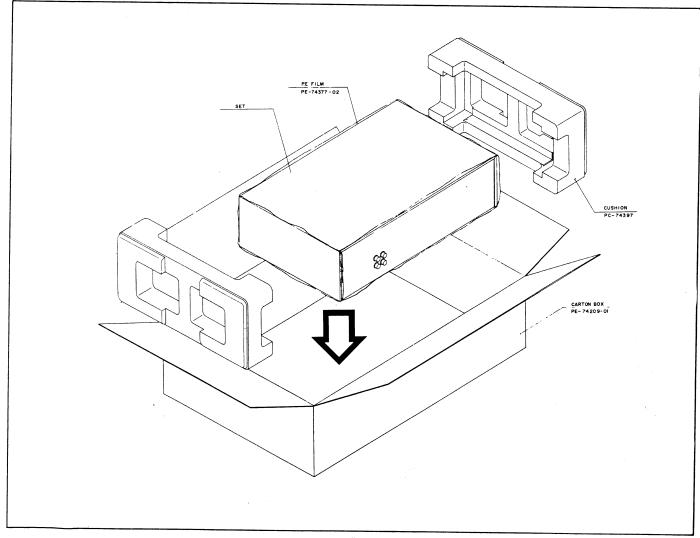
Ref No.	Parts No.	Description	Q'ty					
C136L/R	50MY682-50 J	Mylar 0.0068µF 50V	2					
C137L/R	50MY183-50J	Mylar 0.018μF 50V	2					
C138L/R	50MY103-50J	Mylar 0.01μF 50V	2					
C139L/R	50MY183-50J	Mylar 0.018μF 50V	2					
C140L/R	50MY472-50J	Mylar 0.0047µF 50V	2					
C141L/R	50MY153-50J	Mylar 0.015μF 50V	2					
C142L/R		·						
C143L/R	50AL100-25E	Elect 10µF 25V	2					
C144L/R	50CE470-50-J	Ceramic 47PF 50V	2					
C145L/R	50AL220-16E	Elect 22µF 16V	2					
C146	50MY822-50J	Mylar 0.0082µF 50V	1					
C147	50MY822-50J	Mylar 0.0082µF 50V	1					
C148	50MY103-50J	Mylar 0.01µF 50V	1					
C149	50AL470-25E	Elect 47µF 25V	1					
C150	50PS471-50J	Poly 470PF 50V	1					
C151	50PS471-50J	Poly 470PF 50V	1					
C152	50PS 582-125J	Poly 5800PF 125V	1					
C153	50CE103-500J	Ceramic 0.01µF 500V	1					
C154	50AL102-35E	Elect 1000µF 35V	1.					
C155	50AL471-35E	Elect 470µF 35V	1					
C156	50AL471-16E	Elect 470µF 16V	1					
C157	50CE103-50 J	Ceramic 0.01µF 50V	1					
C158								
C159	50AL221-25E	Elect 220µF 25V	1					
C160	50AL479-25E	Elect 4.7μF 25V	1					
C161								
	COIL	& INDUCTORS						
L101L/R	PE-30180	Dolby Filter	2					
L102L/R	PE-30193	Inductor 4.5mH	2					
L103L/R	PE-30178	Rec trap coil	2					
L104	PE-30189	OSC coil	1					
LEI	PC BOA	RD ASS'Y K40420						
	SEMICO	ONDUCTORS						
1 C2011 /D		L C. I D1407						
1.C301L/R D301L/R		I.C LB1407 LED Diode SLB 61RR 3HL(RED)	2 2					
D301L/R		LED Diode SLB 61RR 3HL(RED)	2					
D302 L/R D303 L/R		LED Diode SLB 61RR 3HL(RED)	2					
D303L/R D304L/R		LED Diode SLB 61RR 3HL(RED)	2					
D304L/R		LED Diode SLB 61PG 3HL(Green)	2 .					
D305L/R D306L/R		LED Diode SLB 61PG 3HL(Green)	2					
D300L/R D307L/R		LED Diode SLB 61PG 3HL(Green)	2					
D307L/K		LED Diode SEB 01FO STIE(Green)						
	RESISTORS							
R301L/R	60F122-1/4J	Carbon 1.2K ohm ½W(J)	2					
R302L/R	60F122-1∕4J	Carbon 1.2K ohm ¼W(J)	2					
R303L/R	60F122-1/4J	Carbon 1.2K ohm 1/4W(J)	2					
R304L/R	60F122-1/4J	Carbon 1.2K ohm 1/4W(J)	2					
R305L/R	60F391-1/4J	Carbon 390 ohm ¼W(J)	2					
R306L/R	60F391-1/4J	Carbon 390 ohm 1/4 W(J)	2					
R307L/R	60F391- ¹ / ₄ J	Carbon 390 ohm 1/4 W(J)	2					
R308L/R	60F820-1/4J	Carbon 82 ohm ¼W(J)	2					

PARTS LIST

Ref No.	Parts No.	Description	Q'ty
R309L/R	60F223-1/4J	Carbon 22K ohm ¼W(J)	2
R310L/R	60F223-1/4J	Carbon 22K ohm ¼W(J)	2
R311L/R	60F121-1/4J	Carbon 120 ohm ¼W(J)	2
R312L/R	60F123-1/4J	Carbon 12K ohm 1/4W(J)	2
R313L/R	60F153-1/4J	Carbon 15K ohm ¼W(J)	2
R314L/R	60F823-1/4J	Carbon 82K ohm ¼W(J)	2
VR310L/R	PE-16005	Semifixed 10K(B)	2
	CA	APACITORS	
C301L/R	50AL100-16E	Elect 10µF 16V	2
C302L/R	50AL109-50E	Elect 1µF 50V	2
C303L/R	50AL100-16E	Elect 10µF 16V	2
·			

Ref No.	Parts No. Description				
	CHA: SEMI	SSIS MTG CONDUCTORS			
D113		LED Diode SLB61RR3HL(RED)	1		
	CA	APACITORS			
C163 DE7150F472MVAI Ceramic 0		Crermic 0.0047μF 50V Δ Ceramic 0.0047μF 400V AC "KC Type"	2		
		FUSES			
F101 F103		Fuse T160mA/250V(20mm) Primary Fuse T100mA/250V(20mm) Primary	1		

PACKING

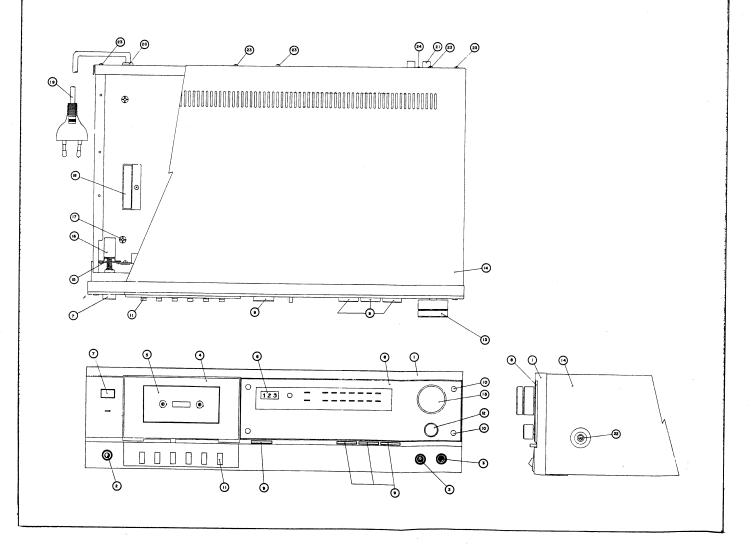


DISASSEMBLY

PARTS LIST

NO.	PARTS NO.	DESCRIPTION	Q'TY
1	PB-61140	FRONT PANEL	1
2	PE-95035	PHONE JACK	1
3	PE-95024	MIC JACK	2
4	PD-71362-01	DECK DOOR	
5	PD-63188	DOOR LENS	1
6	PD-75056	COUNTER(TAPE)	ı
7	PE -72362	POWER KNOB	1
8	PC-63180	ACRYL VIEW	1
9	PE-72365	PUSH KNOB	4
10	PE-71331	ACRYL INSERT PIN	4
11	PE-72372-01	DECK KNOB	6
12	PE-72366	KNOB(\$14)	1

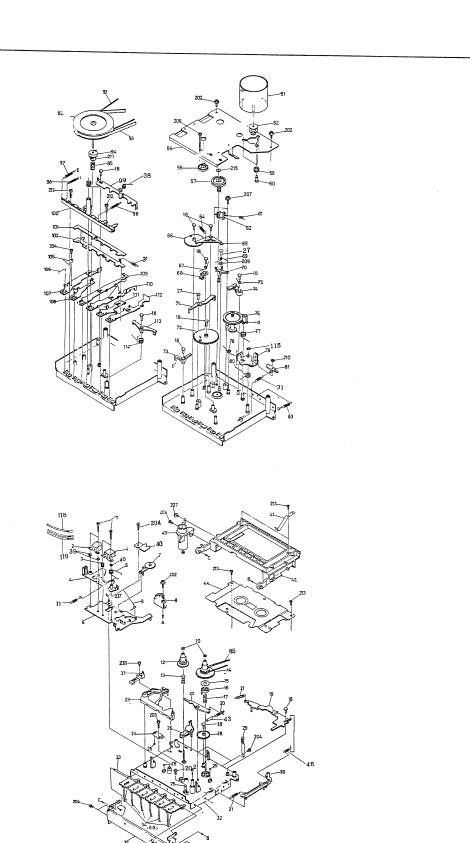
NO.	PARTS NO.	DESCRIPTION	QTY		
13	PD-72367	KNOB(DOUBLE)	1		
14	PC-74388	C-74388 TOP CABINET			
15	PE-68827	POWER SW B.K.T			
16	6 PD-90303 POWER SW				
17	7 AE-71053 RUBBER FOOT				
18	PE-71281	FUSE COVER	1		
19	PE-67051-03	AC POWER CORD	1		
20	PD-71008A	AC CORD STOPPER	1		
21	PE-95138	RCA JACK(4P)	1		
22		SCREW #3 WPTC 3×8(B)	4		
23		SCREW #3 PTC 3×6(B)	9		
24		SCREW #2 PTC 3×6(B)	1		



EXPLODED VIEW OF DECK MECHANISM ASS'Y

PARTS LIST ACCORDING TO DECK MECHANISM ASS'Y

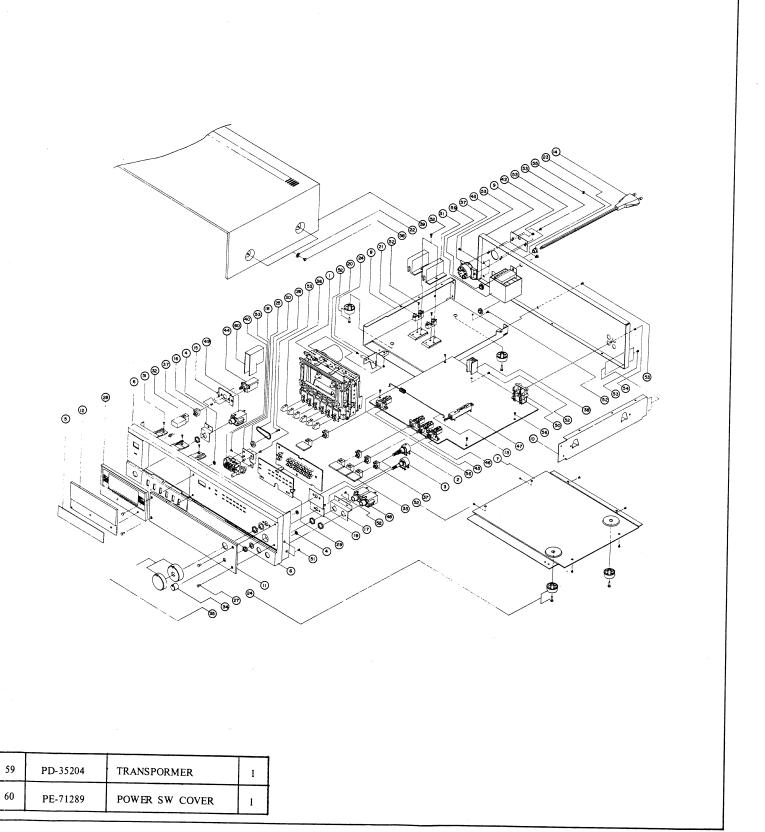
NO.	PARTS CORD	DESCRIPTION	Q"	TY	NO	PARTS CORD	DESCRIPTION	0177
1	H2334-0105	R/P HEAD		\dashv	67	PBE6170		Q'T
2	H4322-01	ERASE HEAD		. 1	68	-	SPRING	1
3	PBE13666	C-SPRING	'			PBE14941	EJECT SUB PLATE	1
4	PBC1134	HEAD STAND	'		69	PBE6160	SPRING	1
5	PBE6163	SPRING	'	-	70	PBD1645	SENSER	1
6	PBC1133		1		71	PBE14946	STOP ARM	1 1
7	PBE02040	HEAD BASE	1		72	PBD1647	ASSIST GEAR A	1 ;
8	1	IDLER ASS'Y	1		73	PBE14958	START LEVER C	
	PBE01600	PINCH ARM ASS'Y	1		74	PBE14992	SENSER ARM	1:
9	PBE6161	SPRING	1		75	PBE6177	SPRING	1 !
10	PGWM16×040020	WASHER	2	- 1	76	PBE01593	TENSION ASS'Y	
11	PBE6189	T-SPRING	1 1		77	PBE6164	1 - 1	1
12	PBD1622	S-REEL	l i	- 1	78	PBE6165	SPRING	1
13	PBE6003	S-BRAKE SPRING	i		79		SPRING	1
14	PBE01595	T-REEL ASS'Y	1 '		1	PBE01592	CHANGE PLATE A ASS'Y	1
15	PBE14720	FRICTION PLATE			80	PBE6166	SPRING	1
16	PBE14935	_	1		81	PBE14936	CHANGE PLATE B	1 1
17	PBE6184	CLUTCH PLATE			83	PBE6154	T-SPRING	1
18	PBE14926	C-SPRING	1		85		COUNTER BELT	1 ;
	1	BUSH	9		91	PBE5046	BELT	
19	PBD1643	BRAKE	1		92	PBE14948	FLYWHEEL	1 :
20	PBE6017	T-SPRING	1		93	PBE5044	BELT	
21	PBE6155	T-SPRING	2		94	PBE14944		1 1
22	PBE14933	PAUSE ARM		1	95	PBE6168	FLYWHEEL GEAR	1
23	PBD1642	CAM LEVER			96	PBE6175	C-SPRING .	1
24	PBE14951	HOLDER PLATE ASS'Y			97	ĺ	SPRING	1
25	PBE14460	STEEL BALL	4			PBE6102	T-SPRING	1 1
26	PBC1132	INTER ROCK PLATE	1		98	PBE6124	T-SPRING	2
27	PBE14927	BUSH	1		99	PBD1658	CAM PLATE	1
28	PBE14939		2		100	PBD1646	LEVER HOLDER	
29	PBE14956	IDLER GEAR	1		101	PBD1723	INTER PLATE	1
30		CASSETTE HOLDER	2		102	PBD1655	LOCK PLATE	;
- 1	PBD1721	LATCH LEVER	1		105	PBE14954	PAUSE PLATE SPRING	1 '
31	PBE6155	T-SPRING	2		106	PBE14982	LOCK PIN	1
32	PBC0780	CHASSLS OS	1		107	PBD1726	PAUSE LEVER	1
33	PBE14928	BUTTON SHAFT	1 1	$\ \cdot\ $	108	PBD1727	•	1 1
34	PBE2951	BUTTON LEVER	6		109	PBD1728	STOP LEVER	1
35	PBD1722	BUTTON FRAME	1 ,		110		FF LEVER	1 1
36	PBE6167	SPRING	1 ;			PBD1729	REW LEVER	1 1
37	MSW1168	LEAF AWITCH	1 :		111	PBDI730	PLAY LEVER	1
- 1	PBE6183	SPRING	'		112	PBD1731	REC LEVER	1 1 1
	PBE14966		1		113	PBE14942	START LEVER A	
- 1	PBE15334	WASHER	1	П	114	PBE6171	SPRING	;
- 1		STOPPER	1	П	115	PGRE40A	E-RING	
	PBE14715	KEEP PLATE	2	П	118		LEAD WIRE	
- 1	PBB2096	CASSETTE CASE	1	П	119		LEAD WIRE	1
- 1	PBE15318	TUBE	1	П	201	PGSN20A2011	SCREW(HEAD)	2
44	PBD2321	MECHANISM COVER				PGST15A2608		4
45	PBE02007	CYLINDER ASS'Y	1 :	H		PGSD10A2610	F TAPPING SCREW	4
46	PBE6005	T-SPRING		Ιſ	- 1		DT SCREW	1
51	EG510ED2B2	MOTOR	1 ; 1			PGSD10A2605	DT SCREW	10
1	PBE14937	PULLEYI	1 ! !	П	- 1	PGSD10A2008	DT SCREW	1
- 1	PBD1659	HOLDER			1	PGSD10A2630	DT SCREW	- 1
	PBE14994	1	'		- 1	PGST15A2606	F TAPPING SCREW	3
- 1	PBD1644	CAPSTAN SUPPORT	1		209	PGWM26×060020	WASHER	1
1 '		WORM			210	PGRE25A	E RING	: 1
	PBE13360	RUBBER CUSHION	3		211	PGWP21×080013	WASHER	- ; 1
	PBE13913	SD SCREW	3	-		PGSD10A2608	1	1
1	PBE6097	C-SPRING	1 1			PGST20A2005	DT SCREW	2
2 1	PBD1660	AS CAM		-	1		TAPPING SCREW	4
4 1	PBE6057	REW SPRING	1 ; 1	- 1	- 1	PBE14984	SCREW	1
5 1	PBE14945	START LEVER	'	- 1		PGWM21×070030	WASHER	1
- 1	PBD1648	ASSIST GEAR B		1		PGRS50P	CS RING	1
		USSIST OFWER	1 1 1	1	218 F	PGSP10A2006	DT SCREW	



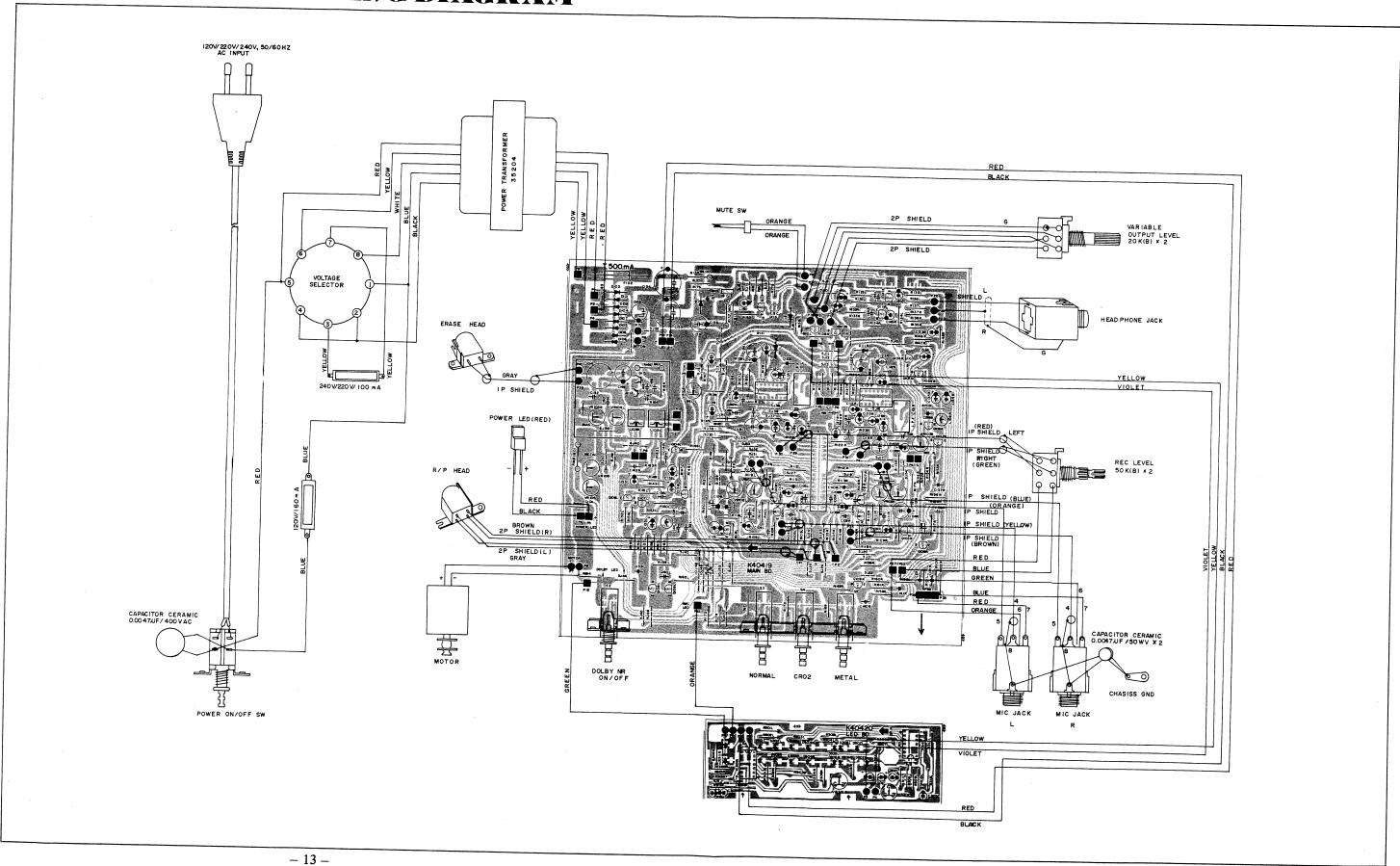
EXPLODED VIEW OF CABINET AND CHASSIS

PARTS LIST	ACCORDING '	TO EXPL	ODEDVIEW
		A V A (AAAA A (37 47 44 47 P 4 44 PP

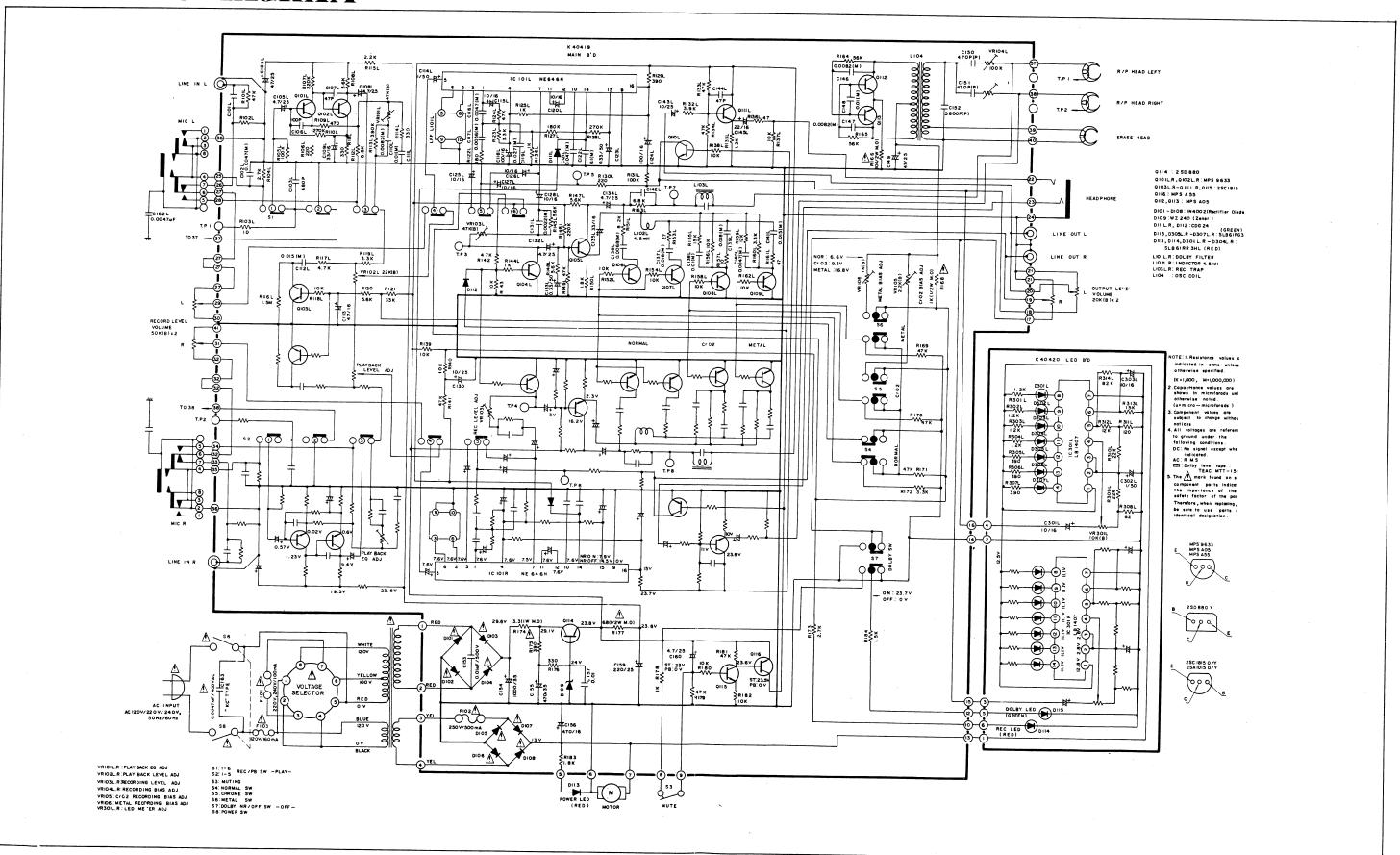
4 1		151 ACCURDING	IU		LA	PLUDI		
NO.	PARTS NO.	DESCRIPTION	Q'TY		NO.	PARTS NO.	DESCRIPTION	Q'TY
1	AC-10104	DECK MECHANISM ASS'Y	1		30	PE-71356-02	COUNTER BELT	1
2	PE-15141	POTENTIOMETER(DOUBLE)	1		31	PE-71281	FUSE COVER	1
3	PE-15142	POTENTIOMETER(OUT LEVEL)	1		32	PE-72362	KNOB(POWER)	1
4	PE-25331	φ3 CS PUSH RING	4		33	PE-72365	KNOB(PUSH)	4
5	PE-63187-01	DOOR PLATE	1		34	PE-72366	KNOB(\$\phi\$14)	1
6	PB-61140	FRONT PANEL	1		35	PE-72367	KNOB(DOUBLE)	1
7	PC-62520	BOTTOM PLATE	1		36	PE-72372-01	KNOB(DECK)	6
8	PC-62521	MAIN FRAME(L)	1		37	PE-72373	KNOB BEZEL	5
9	PC-62522A	BACK CHASSIS	1		38	PE-73060-02	TR HEAT SINK	1
10	PC-62524	SIDE FRAME(R)	1		39	PE-74388	TOP COVER	1
11	PC-63180	ACRYL VIEW	1		40	PD-75056	TAPE COUNTER	1
12	PD-63188	DECK DOOR WINDOW	1		41	1		
13	PE-66104	REC SPRING	1		42	PE-77124	VOLTAGE COVER PLATE	1
14	PE-67051-03	AC POWER CORD	1		43	PE-90376	VOLTAGE SELECTOR SW	1
15	PE-68827	POWER SW B.K.T	1		44	PD-90303	POWER SW(PUSH)	1
16	PE-68829	PHONE JACK B.K.T	1		45	PE-90352	PUSH SW(IGANG)	1
17	PE-68830	MIC JACK B.K.T	1		46	PE-90353	PUSH SW(3GANG)	1
18	PE-68831	COUNTER B.K.T	1		47	PE-90354	SLIDE SW	1
19	PE-68865A	G.N.D PLATE	1		48	PE-95024	MIC JACK	1
20	PE-68866	REC B.K.T	1		49	PE-95035	PHONE JACK	1
21	PE-69096	FUSE HOLDER(20 m/m)	1	l	50	PE-95138	R.C.A JACK(4P)	1
22	PE-70046	VINYL WASHER	4		51		SCREW #3 FTC 3×6	12
23	PD-71008A	CORD STOPPER	1	-	52		SCREW #2 BTC 3×6	20
24	AE-71053	RUBBER FOOT ASS'Y	4		53		SCREW #3 PTC 3×6(B)	9
25	PE-71235	COUNTER PULLEY	1	-	54		SCREW #2 PTC 3×6(B)	1
26	PE-70051	PIVOT(SMALL)	1	-	55		SCREW #WPM 4×8	2
27	PE-71331	ACRYL INSERT PIN	4	-	56		SCREW #2 WPTC 3×8	4
28	PD-71362-01	DECK DOOR	1	-	57		FLANGE NUT M4	2
29	PD-71333	L.E.D BODY	1	-	58		SCREW#3 WPTC 3×8(B)	4

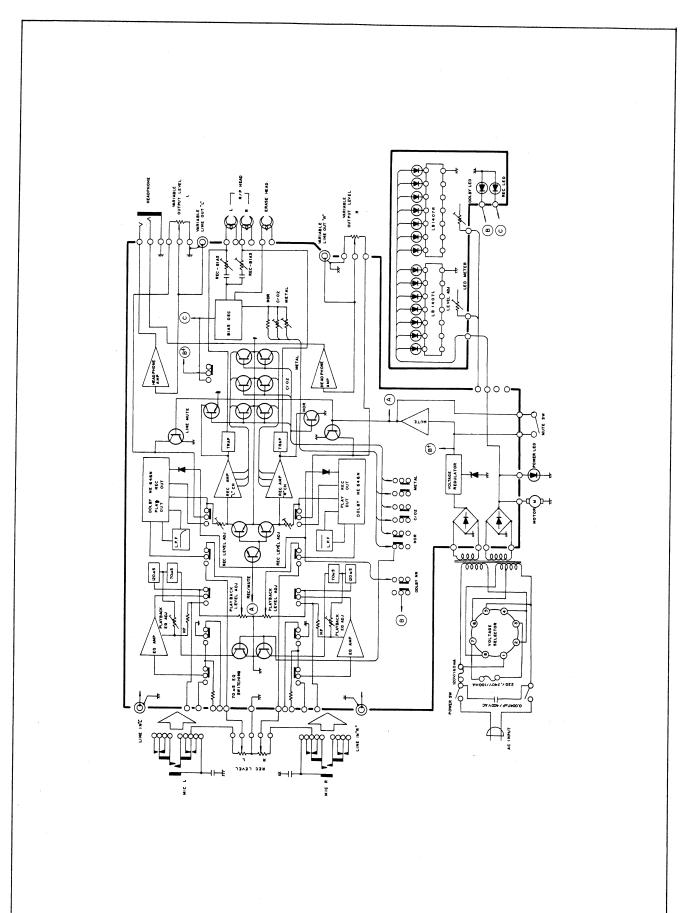


POINT TO POINT WIRING DIAGRAM



SCHEMATIC DIAGRAM





-17-



Kanonengase 28 · Postfach · CH-4001 Basel Telefon 061-234470 · Telex 62 277 gugb

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